ABSTRACT

A liquid dispensing device including a body generally having an air passage and a liquid passage. A valve seat is connected to the body and a valve stem is mounted for movement within the body with respect to the valve seat. A piston is caused to move by pressurized air, and is caused by a spring and optionally, air pressure above the piston, to return to its normal position when the air pressure is relieved. The stem is connected to the piston so that it is caused to move linearly to and from the valve seat. The stem is not rigidly connected to the piston, allowing the piston to find its center in the air cylinder and the stem to find its center in the liquid chamber. The piston is mounted with two bearing points so that it is not affected by uneven spring pressure. The stem is located by two bearing points, the adhesive seal and the seat. The air cylinder body and valve body are separated by a large open area. The body includes a user replaceable cylindrical filter disposed in the liquid chamber around the stem. This filter and the liquid seal is easily removed for maintenance by extracting the seal housing from the bottom of the valve.